



Addendum No. 1

Project Name: 46th St and Post Rd I/I Removal Project
Project Number: 2025.01995
Date: February 27, 2026

OWNER:

City of Lawrence Utilities
9001 E 59th St
Lawrence IN, 46216

ENGINEER

American Structurepoint, Inc.
9025 River Road, Suite 200
Indianapolis, Indiana 46240
317.547.5580

This Addendum forms part of the Contract Documents for the Project and contains clarifications and revisions to the Contract Documents.

The information contained herein modifies the original Bidding Documents and all prior Addenda as applicable. Requirements of the original Bidding Documents and previous Addenda remain in effect except as modified by this Addendum.

Bidders must acknowledge receipt of this Addendum on the Bid form. Failure to acknowledge receipt of this Addendum may subject Bidder to disqualification.

The extent of this addendum is as follows:

QUESTIONS AND ANSWERS

1. Can waste removed from the sewers be dumped at the treatment plant?
 - a. *No, contractor is responsible for hauling and dumping debris removed from the sewers.*
2. Can the CCTV be provided prior to bidding?
 - a. *Yes, please download videos from the link below. This link will expire on March 27, 2026.*
 - b. <https://structurepoint.sharefile.com/d-sf0d1b9280bd447d3b5ebbf91e6c4e6c4>
3. Are you requiring air testing for the CIPP lines?
 - a. *No. See testing requirements in Section 33 01 30.72, paragraph 3.8.*
4. Is Hydrotite an approved end seal?
 - a. *End seals need to meet the requirements listed in Section 33 01 30.72, paragraph 2.3 (B)(4).*
5. Do you have a specific soil mod you would like used for designing the CIPP liners?
 - a. *1,000 psi.*
6. Do you have videos to review? If not do you have anticipated number of lines that will require grouting?
 - a. *Please see answer to Question #2.*
7. Is continuous temperature monitoring throughout the length of the pipe required or just at the manholes?
 - a. *Only end of liner temperature monitoring is required; see Section 33 01 30.72, Paragraph 3.4 (C).*
8. Specs state testing needs to be 2 every 2500LF. Is this per size or all combined?
 - a. *The testing listed in Section 33 01 30.72, Paragraph 3.8 (C), is for total feet of liner installed, so all combined.*
9. Would the owner consider Quadex Quad-Plug as an approved Patching Materials/Infiltration Control per Section 33 01 30.76 Part 2.1-A?
 - a. *Per the contract documents, Instructions to Bidders, Article 10, we cannot review any substitutions until a contractor is selected and awarded the project.*
10. Would the owner consider Quadex I&I Guard-PRF as an approved infiltration control polyurethane grout per Section 33 01 30.76 Part 2.1-B?
 - a. *Per the contract documents, Instructions to Bidders, Article 10, we cannot review any substitutions until a contractor is selected and awarded the project.*
11. Would the owner consider Quadex Structure Guard an approved epoxy liner/protective coating material per Section 33 01 30.76 Part 2.1-E?
 - a. *Per the contract documents, Instructions to Bidders, Article 10, we cannot review any substitutions until a contractor is selected and awarded the project.*
12. Would the owner consider Quadex Chimney Guard an approved internal chimney seal per Section 33 01 30.73 Part 2.1-F?
 - a. *Per the contract documents, Instructions to Bidders, Article 10, we cannot review any substitutions until a contractor is selected and awarded the project.*
13. Would the owner consider Quadex GeoKrete an approved alternative one-step solution in lieu of cement + epoxy per Section 33 01 30.76 Part 2.1?
 - a. *Per the contract documents, Instructions to Bidders, Article 10, we cannot review any substitutions until a contractor is selected and awarded the project.*

DOCUMENT MODIFICATIONS

PROJECT MANUAL

1. Section 01 50 00 – 1.11 Traffic Regulation
 - a. **After Section 1.11.I, insert the following text as 1.11.J:**

J. Coordination with IndyGo

1. Contractor shall coordinate work with IndyGo at least two weeks prior to impacting the operation of an existing bus stop within the construction limits. Contractor shall be responsible for providing temporary bus access during construction and/or coordinate temporary bus stop closings with IndyGo.
2. All coordination and work required to provide temporary access to buses during construction and all incidental work, including temporary ADA access, shall be included in the cost of Maintaining Traffic.
3. IndyGo Contacts
 - a. Ryan Hunt – Director of Service Planning
 - 1) ryan.hunt@IndyGo.net
 - 2) 317-348-2724
 - b. Tim Cox – Deputy Chief of Transit Operations
 - 1) 317-614-9222
 - 2) Tcox@indygo.net
 - c. Matt Duffy – Director of Capital Projects
 - 1) Matthew.duffy@indygo.net
 - 2) 463-224-8299
 - d. Tareese Bouye – Service Impact Supervisor
 - 1) 317-614-9275
 - 2) Tbouye@indygo.net
 - e. Ryan Gallagher – Transit Planner
 - 1) rgallagher@indygo.net
 - 2) 317-614-9334
 - f. Christian Cambron – Project Manager, Capital Projects
 - 1) 812-697-1649
 - 2) Christian.cambron@indygo.net
 - g. IndyGo Bus Stops
 - 1) busstops@indygo.net

DRAWINGS

See clouded revisions marked with a 'Triangle' on the following attached drawings:

2 of 44	General Information
23 of 44	Sanitary Sewer Replacement and Restoration Plan – Post Rd
25 of 44	Sanitary Sewer Restoration Plan
26 of 44	Sanitary Sewer Restoration Plan
27 of 44	Sanitary Sewer Restoration Plan
28 of 44	Sanitary Sewer Restoration Plan
42 of 44	City of Lawrence Roadway Details
43 of 44	City of Indianapolis Roadway Details
44 of 44	City of Indianapolis Roadway Details

END OF ADDENDUM

UTILITIES

ELECTRIC:

AES INDIANA
1230 WEST MORRIS STREET
INDIANAPOLIS, IN 46221
PHONE: 317.864.3366
CONTACT: JAMES HERIN

TCS COMMUNICATIONS
4355 LAFAYETTE BLVD.
INDIANAPOLIS, IN 46254
PHONE: 241.597.4716
CONTACT: MIKE MARAFINE
PHONE: 812.623.1233
CONTACT: MARY GIBBONS

GAS

CITIZENS GAS
2150 DR. MARTIN LUTHER KING JR. STREET
INDIANAPOLIS, IN 46200
PHONE: 317.927.6038
CONTACT: UTILITY COORDINATION

METRO FIBERNET, LLC
3701 COMMUNICATIONS WAY
EVANSVILLE, IN 477156
PHONE: 812.213.1050

CABLE

COMCAST INDIANAPOLIS
5330 EAST 65TH STREET
INDIANAPOLIS, IN 46220
PHONE: 317.275.6365

ZAYO BANDWITH
625 EAST 11TH STREET
INDIANAPOLIS, IN 46202
PHONE: 317.524.5711
CONTACT: JOHN SENESE

WATER

LAWRENCE UTILITIES
9201 HARRISON PARK COURT
LAWRENCE, IN 46216
PHONE: 317.524.6301
CONTACT: ANDREW HALL

TELEPHONE

AT&T
5870 N. COLLEGE AVE.
INDIANAPOLIS, IN 46220
PHONE: 317.372.9885
CONTACT: C. TENDAI INMAN

SANITARY

LAWRENCE UTILITIES
9201 HARRISON PARK COURT
LAWRENCE, IN 46216
PHONE: 317.501.7808
CONTACT: GREG GEE

MCI

400 INTERNATIONAL PARKWAY
RICHARDSON, TX 75081
PHONE: 469.886.4238
CONTACT: DEAN BOYERS

STORMWATER

CITY OF LAWRENCE
9001 E. 59TH STREET, #205
LAWRENCE, IN 46216
PHONE: 317.542.4480
CONTACT: RENEA RAFALA

INTERNET

BRIGHTHOUSE NETWORKS INDIANAPOLIS
3030 ROOSEVELT AVENUE
INDIANAPOLIS, IN 46218
PHONE: 317.632.9077
CONTACT: JASON KIRKMAN

INDYGO BUS

PHONE: 812.697.1649
CONTACT: CHRISTIAN CAMBRON

FIBER OPTIC

CENTURY LINK
4625 W. 86TH STREET
INDIANAPOLIS, IN 46268
PHONE: 877.366.8344 EXT. 2



CAUTION !!

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.



811 Know what's below. Call before you dig.

GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS FOR THIS PROJECT. ADDITIONS, DELETIONS, AND/OR REVISIONS TO THE SANITARY SEWER FACILITIES SHALL NOT BE MADE WITHOUT PRIOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL KEEP, AND MAINTAIN IN GOOD CONDITION, A COMPLETE SET OF THE PROJECT PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
- CONTRACTOR SHALL CONTACT CITY OF LAWRENCE UTILITIES AND UTILITY COMPANIES A MINIMUM OF 48 HOURS IN ADVANCE OF WORKING IN ANY AREAS. IT IS CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UTILITIES IN HIS WORK AREA WHETHER SHOWN OR NOT.
- ALL EXCESS EXCAVATED OR CLEARED MATERIAL SHALL BE DISPOSED OF LAWFULLY BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS.
- CONTRACTOR SHALL MAKE ALL MEASUREMENTS AND CHECK ALL DIMENSIONS NECESSARY FOR THE PROPER INSTALLATION OF THE WORK CALLED FOR BY THE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL MAKE ALL NECESSARY MEASUREMENTS TO PREVENT MISFITTING IN SAID WORK AND SHALL BE RESPONSIBLE FOR THE ACCURATE CONSTRUCTION OF THE ENTIRE WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL BYPASS PUMPING REQUIRED TO COMPLETE THE WORK. BYPASS PUMPING SHALL CAUSE MINIMUM INTERFERENCE WITH TRAFFIC AND MINIMUM DISRUPTION TO LOCAL PROPERTY OWNERS. SEE SPECIFICATION 015100.
- ACTIVE FLOWS SHALL BE DIVERTED WITH FLOW THROUGH PLUGS OR BYPASS PUMPED AS REQUIRED TO ENSURE THAT THE LIQUID FLOW IS MAINTAINED OFF THE SURFACES TO BE LINED.
- IN THE EVENT THAT THE CONTRACTOR DISCOVERS A DISCREPANCY ON THE CONSTRUCTION PLANS OR A POTENTIAL UTILITY CONFLICT, HE SHALL CONTACT THE ENGINEER IMMEDIATELY FOR CLARIFICATION, PRIOR TO PROCEEDING WITH CONSTRUCTION OF THE PORTION IN QUESTION.
- ALL DISTURBED AREAS INCLUDING, BUT NOT LIMITED TO, STREETS, DRIVES, WALKS, LAWNS, ETC. SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. IF DAMAGED, ALL CULVERTS, STORM PIPES, AND APPURTENANCES SHALL BE REPLACED WITH NEW MATERIALS OF COMPARABLE SIZE. CULVERT SIZE SHALL NOT BE SMALLER THAN 12 INCHES. SWALES, DITCHES, ETC. SHALL BE REGRADED TO PROVIDE POSITIVE DRAINAGE.
- THE CONTRACTOR SHALL PROTECT POWER POLES AND OTHER UTILITIES FROM DAMAGE, IN A MANNER APPROVED BY UTILITY.
- THE USE OF EXPLOSIVES FOR "ROCK REMOVAL" IS PROHIBITED UNLESS OTHERWISE AUTHORIZED IN WRITING.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS REQUIRED FOR THE PROJECT NOT IDENTIFIED IN THE CONTRACT DOCUMENTS AS OBTAINED BY OWNER, AND PAYING ALL PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS AND OTHER FEES REQUIRED FOR THE WORK.
- CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL NECESSARY LOCAL PERMITS HAVE BEEN OBTAINED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MUD, DIRT, GRAVEL, AND ANY OTHER MATERIALS TRACKED ONTO ANY PUBLIC OR PRIVATE STREETS, PARKING LOTS, OR WALKS. THIS MATERIAL REMOVAL OR SWEEPING OF THE STREETS SHALL BE DONE AS FREQUENTLY AS NECESSARY TO MAINTAIN REASONABLY CLEAN STREETS. THE CONTRACTOR MUST ALSO KEEP AIRBORNE DIRT AND DUST TO A MINIMUM BY USING WATER OR OTHER METHODS AS NECESSARY.
- ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL HAVE TEMPORARY SEEDING AND MULCHED SEEDING ONCE WORK IN THE AREA IS COMPLETE.
- THE CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES TO ENSURE THE AREA IS NOT ADVERSELY IMPACTED BY DUST CREATED BY CONSTRUCTION. IN THE EVENT WATER IS USED AS A DUST CONTROL METHOD, ONLY A LIGHT MISTING SHALL BE ACCEPTABLE. A HEAVIER FLUSH TO PUSH DUST AND DEBRIS DOWN A STORM DRAIN IS UNACCEPTABLE.
- COMPACTED GRANULAR BACKFILL OR FLOWABLE FILL SHALL BE REQUIRED FOR BACKFILLING UNDER PAVEMENT, GRAVEL DRIVES, AND WITHIN 5 FEET OF THE EDGE OF PAVEMENT AND GRAVEL DRIVES.
- FIELD TILE ENCOUNTERED SHALL BE REPLACED TO ITS ORIGINAL SIZE AND FLOW DIRECTION.
- CONTRACTOR SHALL CONDUCT A "WALK THROUGH" MEETING WITH OWNER, AND ENGINEER WHEN THE CONTRACTOR BELIEVES THE FINAL RESTORATION IS COMPLETE TO ENSURE THE RESTORATION MEETS THE REASONABLE EXPECTATIONS OF THE PROPERTY OWNERS.
- THE CONTRACTOR SHALL PROVIDE, AT HIS EXPENSE, ALL AUTOMOBILE AND PEDESTRIAN TRAFFIC CONTROL DEVICES REQUIRED BY FEDERAL, STATE, COUNTY, CITY, OR LOCAL AGENCIES. THE AMOUNT, LOCATION, AND SIZE SHALL BE AS REQUIRED BY THE AGENCY.
- WHERE NEW WORK ABUTS EXISTING CURBS, SIDEWALK, DRIVES, OR OTHER PAVEMENTS WHICH ARE TO REMAIN IN PLACE, THE CONTRACTOR SHALL PROVIDE NEAT SAWCUTS, FULL DEPTH AT THE LIMIT OF CONSTRUCTION. PAYMENT FOR SAWCUTS SHALL BE INCLUDED IN THE APPROPRIATE BID ITEM AS SPECIFIED IN SECTION 012000 OF THE SPECIFICATIONS.
- THE DRAWINGS DO NOT SHOW PHASING OR SEQUENCING OF THE PROJECT WORK.
- TRAFFIC CONTROL REQUIREMENTS ARE SPECIFIED IN SECTION 015000 OF THE SPECIFICATIONS. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS LISTED THEREIN AND SHALL MAINTAIN VEHICULAR ACCESS AT ALL TIMES TO ALL PROPERTY ADJACENT TO THE CONTRACTORS WORK THE CONTRACTOR SHALL COMPLY WITH THE CITY OF LAWRENCE AND STATE OF INDIANA REQUIREMENTS FOR TRAFFIC CONTROL IN ADDITION TO THE SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY POLICE AND FIRE DEPARTMENT OFFICIALS OF ALL CLOSED OR BLOCKED STREETS AND ALLEYS.
- THE CONTRACTOR SHALL PROVIDE A DETAILED MAINTENANCE OF TRAFFIC PLAN TO THE CITY OF LAWRENCE, AND ONLY UPON APPROVAL BY THE CITY OF LAWRENCE, MAY THE CONTRACTOR BEGIN WORK. THE PLAN SHALL DETAIL ALL PHASES OF WORK, COMPLETE DETAILED LAYOUT OF LANE CLOSURES, DETOUR ROUTES, AND ADVANCED WARNING SIGNAGE (SUCH AS 'ROAD WORK AHEAD,' 'ROAD CLOSED AHEAD,' 'LEFT LANE CLOSED AHEAD,' ETC.) FOR ALL PHASES OF CONSTRUCTION. THIS INCLUDES ALL STREETS LEADING INTO THE WORK ZONE.

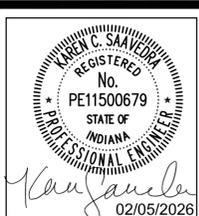
NOTE: STREET NAME PLACARDS ARE REQUIRED TO BE PLACED WITH ALL CLOSURE AND DETOUR SIGNS IN RESPECT TO THE ROAD NAME(S) OF CLOSURE. SIGNS SHALL BE IN COMPLIANCE WITH THE "INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (INDIANA-MUTCD)". FOR MORE INFORMATION ON DEVELOPING THIS PLAN SEE INDOT'S MAINTENANCE OF TRAFFIC STANDARD DRAWINGS.
- THE CONTRACTOR SHALL PURSUE THE PROJECT IN SUCH A MANNER AS TO MINIMIZE BOTH THE EXTENT AND THE DURATION OF THE DISRUPTION OF TRAFFIC AND TO MAINTAIN THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE STREET. ANY STREET CLOSURES WHICH ARE REQUIRED DURING CONSTRUCTION OF THIS PROJECT, WILL BE APPROVED ONLY BY THE CITY OF LAWRENCE. CONTRACTOR SHALL NOTIFY VIA DOORHANGER ALL AFFECTED HOMEOWNERS A MINIMUM OF 24 HOURS IN ADVANCE OF ANY STREET CLOSURES.
- THE CONTRACTOR SHALL SECURE HIS WORK AREA AT ALL TIMES AND PROHIBIT UNAUTHORIZED ACCESS BY THE GENERAL PUBLIC. THE CONTRACTOR SHALL PROVIDE, AT ALL TIMES, A SAFE PEDESTRIAN WALKWAY AROUND THE WORK AREA FOR ACCESS WHEN WORKING ACROSS SIDEWALKS. FOR PROPERTIES ADJACENT TO THE WORK AREA, THE CONTRACTOR SHALL PROVIDE FACILITIES FOR PEDESTRIAN AND VEHICULAR INGRESS AND EGRESS.
- THE CONTRACTOR SHALL CONFIRM IN THE FIELD LOCATIONS OF PARTIAL REPAIRS BEFORE BEGINNING EXCAVATION ASSOCIATED WITH THE REPAIR.

DRAWING INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL INFORMATION
3	BENCHMARK AND CONTROL POINT DATA
4	MAINTENANCE OF TRAFFIC
5	SANITARY SEWER REHABILITATION KEY MAP
6-14	SANITARY SEWER REHABILITATION PLAN
15	SANITARY SEWER REPLACEMENT PLAN & PROFILE-CHARNEY AVE
16-17	SANITARY SEWER REPLACEMENT PLAN & PROFILE-MAPLE LN
18	SANITARY SEWER REPLACEMENT PLAN & PROFILE-46TH ST
19-21	SANITARY SEWER REPLACEMENT PLAN & PROFILE-CLINTON ST
22	SANITARY SEWER REPLACEMENT PLAN & PROFILE-45TH ST
23	SANITARY SEWER REPLACEMENT AND RESTORATION PLAN-POST RD
24	SANITARY SEWER REPLACEMENT AND RESTORATION PLAN-BECHTOLD AVE/CHARNEY AVE
25-28	SANITARY SEWER RESTORATION PLAN
29	SANITARY PIPE REHABILITATION TABLE
30	SANITARY MANHOLE REHABILITATION TABLE
31-32	SANITARY LATERAL REHABILITATION TABLE
33	SANITARY LATERAL REPLACEMENT TABLE
34	EROSION CONTROL DETAILS
35-36	STANDARD DETAILS
37-39	CITY OF LAWRENCE STANDARD DETAILS
40	CITY OF LAWRENCE SANITARY SPECIFICATIONS
41-42	CITY OF LAWRENCE ROADWAY DETAILS
43-44	CITY OF INDIANAPOLIS ROADWAY DETAILS

REVISIONS			
REVISION NO.	SHEET NO.	DESCRIPTION	DATE
1	2	ADDED INDYGO BUS CONTACT, UPDATED DRAWING INDEX	02/24/2026
1	23	UPDATED MILLING EXTENTS AND RESTORATION NOTES	02/24/2026
1	25-28	UPDATED RESTORATION NOTES	02/24/2026
1	42-44	UPDATED RESTORATION DETAILS	02/24/2026

9025 RIVER ROAD, SUITE 200
INDIANAPOLIS, IN 46240
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com

AMERICAN
STRUCTUREPOINT
INC



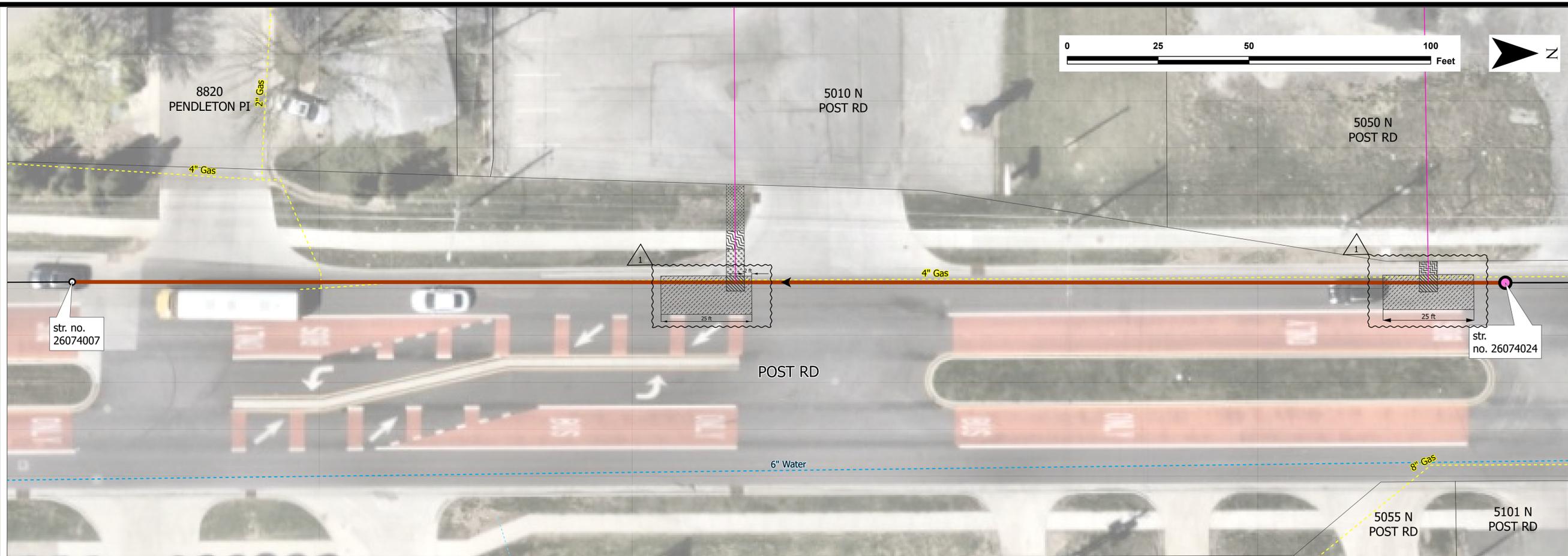
GENERAL INFORMATION

**LAWRENCE 46TH ST AND POST 1/I
REMOVAL PROJECT**

DATE: 02/05/2026
DRAWN BY: VE
CHK'D BY: KCS
JOB NO.: 2025.01995

REVISIONS	
NO.	DATE
1	02/24/2026

SHEET NO.
2 of 44



Legend			
—	Sanitary Sewer	Sewer Rehabilitation	Manhole Rehabilitation
—	Lateral	Lateral Replacement	● Manhole Lining
○	Sanitary Manhole		
---	Water Main		
---	Water Service Line		
---	Gas Main		
	Full Depth Asphalt Restoration		
	Milling & Resurfacing		
	Curb Restoration		
	Sidewalk Restoration		
	Concrete Drive Restoration		
	Seeding Restoration		

NOTES:

- REFER TO CITY OF INDIANAPOLIS ROADWAY DETAILS ON SHEETS 43-44 FOR PAVEMENT RESTORATION ON POST RD.
- LOCATIONS OF SEWER LATERALS AND OTHER UTILITIES ARE APPROXIMATE. CONTRACTOR TO CONFIRM LOCATIONS PRIOR TO WORK.
- USE 6" PVC SDR 35 FOR LATERAL REPLACEMENTS. RECONNECT EXISTING LATERALS IN TRENCH PER EXISTING LATERAL RECONNECTION DETAIL.

9025 RIVER ROAD, SUITE 200
 INDIANAPOLIS, IN 46240
 TEL 317.547.5580 FAX 317.543.0270
 www.structurepoint.com

AMERICAN STRUCTUREPOINT INC.

KAREN C. SAADEEN
 REGISTERED
 No. PE11500679
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

Karen Saadeen
 02/05/2026

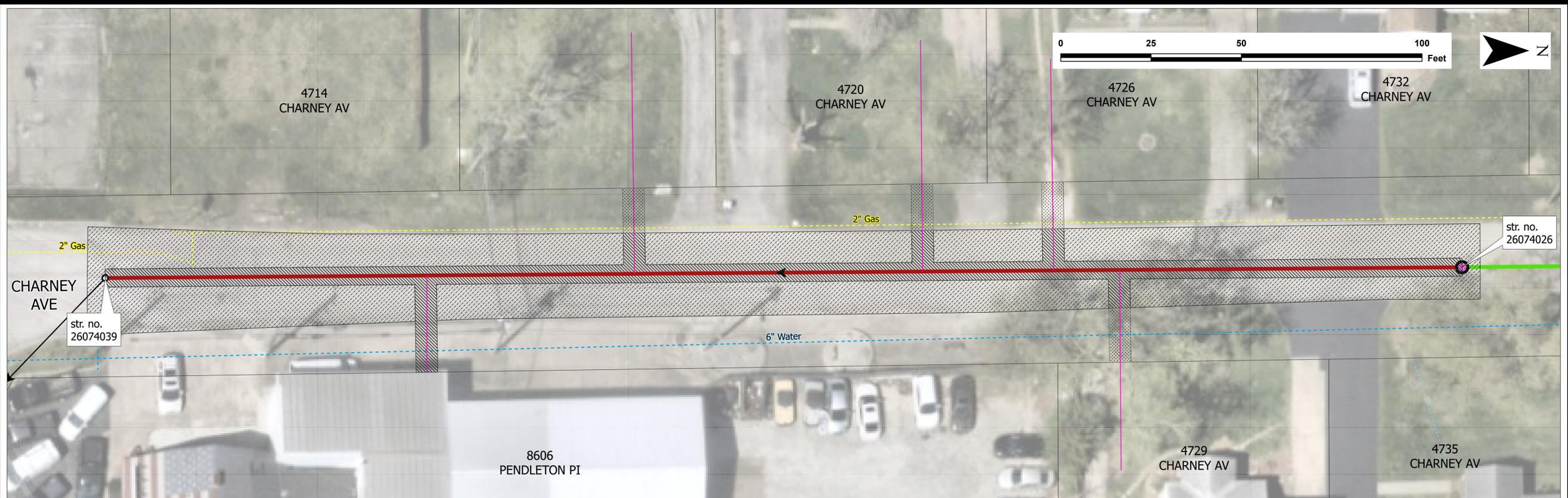
SANITARY SEWER REPLACEMENT AND RESTORATION PLAN - POST RD

LAWRENCE 46TH ST AND POST I/I REMOVAL PROJECT

DATE:	02/05/2026
DRAWN BY:	HTE
CHK'D BY:	KCS
JOB NO.:	2025.01995

REVISIONS	
1	02/24/2026

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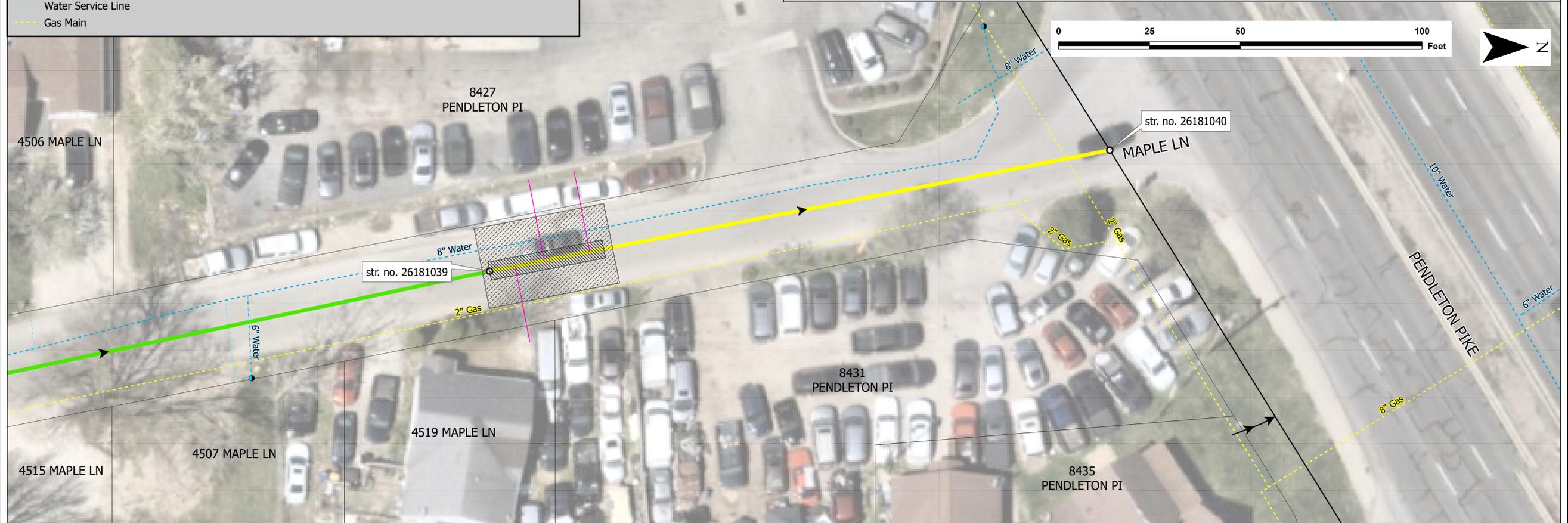


Legend

— Sanitary Sewer	Sewer Rehabilitation	Manhole Rehabilitation	Restoration
— Lateral	— Full Replacement	○ Manhole Lining	▨ Full Depth Asphalt Restoration
○ Sanitary Manhole	— CIPP, Lateral Lining		▨ Milling & Resurfacing
— Water Main			▨ Seeding Restoration
— Water Service Line			
— Gas Main			

NOTES:

1. FOR PAVEMENT REPAIRS ON 46TH ST, REFER TO DETAILS ON SHEET 43.
2. FOR ALL OTHER REPAIRS, REFER TO DETAILS ON SHEET 35. BACKFILL SHALL BE GRANULAR BACKFILL COMPACTED TO FULL DEPTH IN 6" MAXIMUM LIFTS WHEN IN OR WITHIN 5 FEET OF PAVEMENT.
3. LOCATIONS OF SEWER LATERALS AND OTHER UTILITIES ARE APPROXIMATE. CONTRACTOR TO CONFIRM LOCATIONS PRIOR TO WORK.

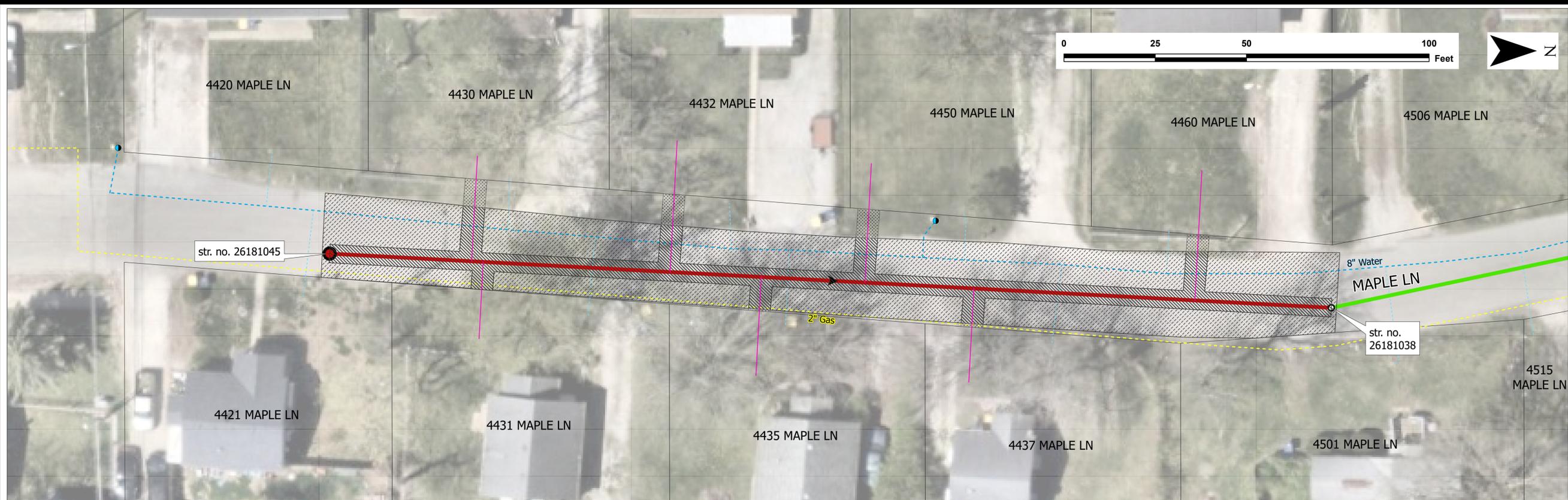


SANITARY SEWER RESTORATION PLAN

LAWRENCE 46TH ST AND POST I/I REMOVAL PROJECT

DATE:	02/05/2026
DRAWN BY:	HTE
CHK'D BY:	KCS
JOB NO.:	2025.01995
REVISIONS	
1	02/24/2026

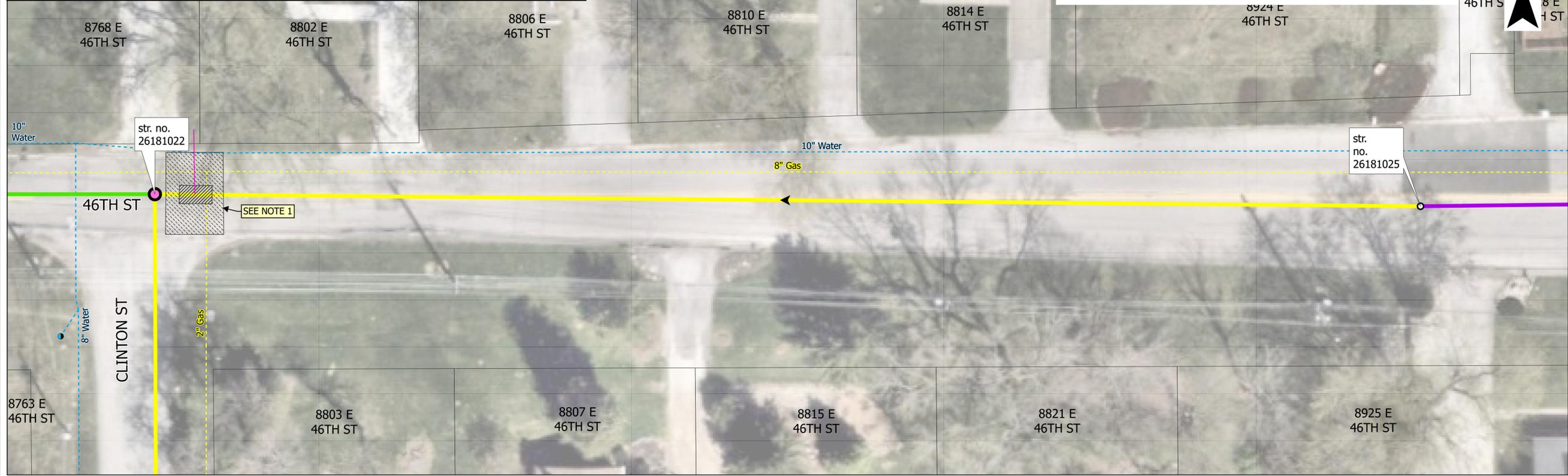
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Legend			
— Sanitary Sewer	Sewer Rehabilitation	Manhole Rehabilitation	Restoration
— Lateral	— Full Replacement	● Manhole Replacement	▨ Full Depth Asphalt Restoration
○ Sanitary Manhole	— CIPP, Lateral Lining		▨ Milling & Resurfacing
— Water Main			▨ Seeding Restoration
— Water Service Line			
● Hydrant			
— Gas Main			

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9025 RIVER ROAD, SUITE 200
 INDIANAPOLIS, IN 46240
 TEL 317.547.5580 FAX 317.543.0270
 www.structurepoint.com

AMERICAN STRUCTUREPOINT INC.

KAREN C. SAAVEDRA
 REGISTERED
 No. PE11500679
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

Karen Saavedra
 02/05/2026

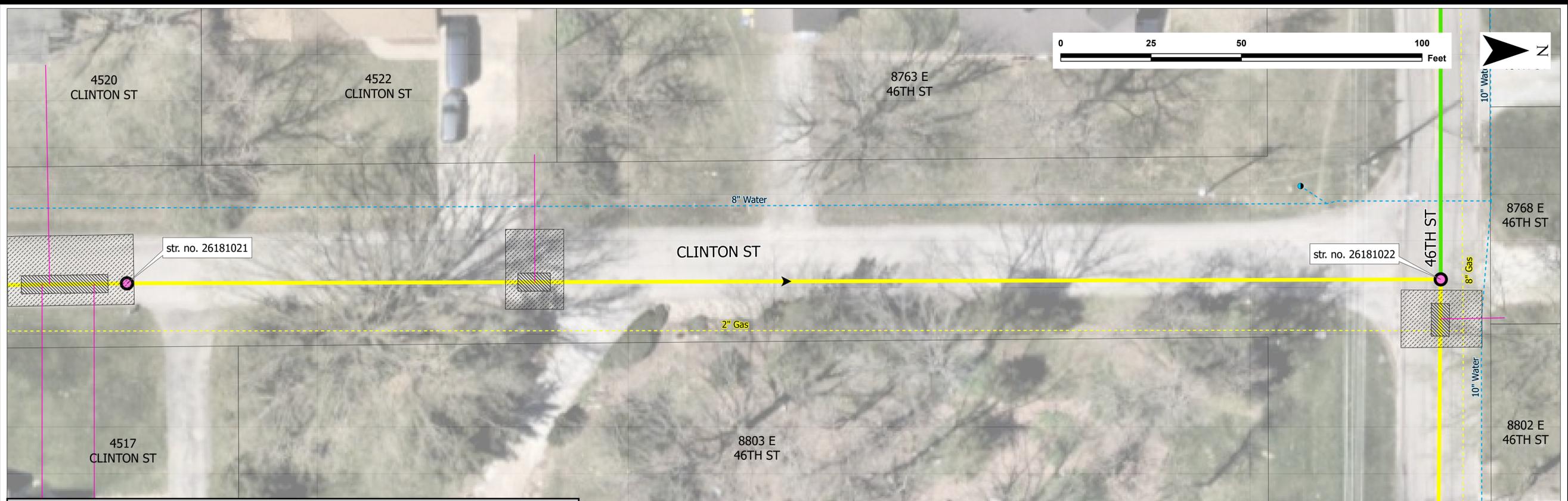
SANITARY SEWER RESTORATION PLAN

LAWRENCE 46TH ST AND POST I/I REMOVAL PROJECT

DATE:	02/05/2026
DRAWN BY:	HTE
CHK'D BY:	KCS
JOB NO.:	2025.01995

REVISIONS	
1	02/24/2026

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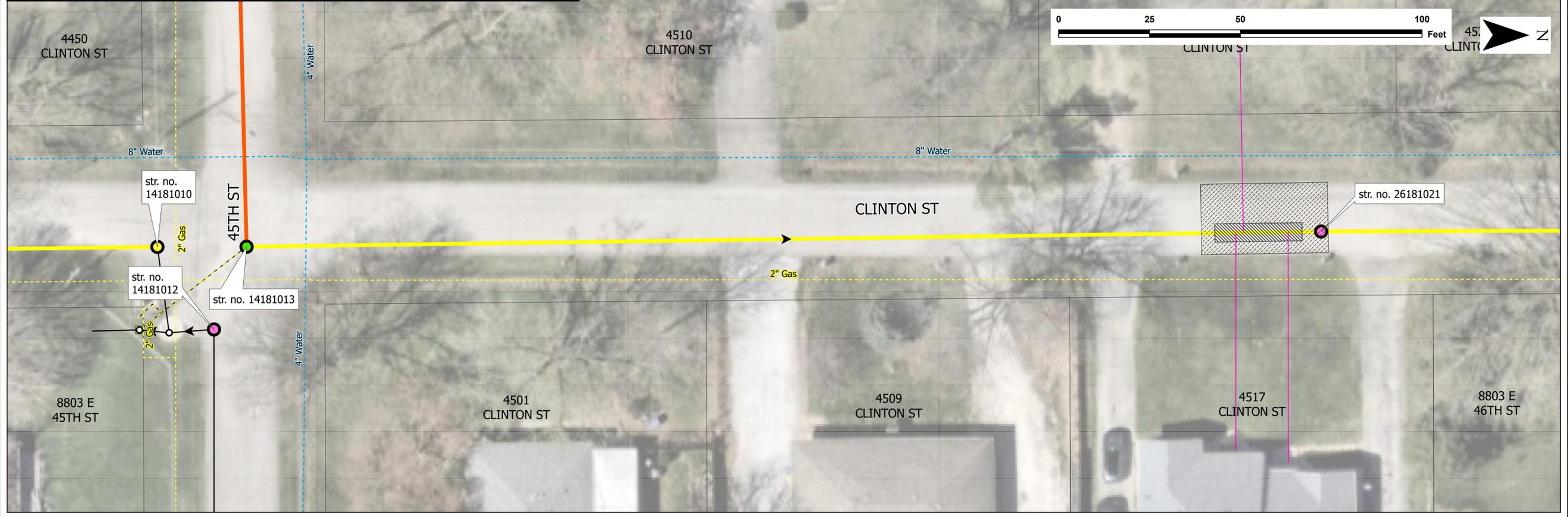


Legend

— Sanitary Sewer	Sewer Rehabilitation	● Manhole Lining	Restoration
— Lateral	— CIPP, Lateral Lining, Partial Replacement with Wye	○ Sanitary Manhole	▨ Full Depth Asphalt Restoration
○ Sanitary Manhole	— CIPP, Lateral Lining	— Water Main	▨ Milling & Resurfacing
● Hydrant	— Gas Main		

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KAREN C. SAAVEDRA
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 STATE OF INDIANA
 PROFESSIONAL ENGINEER

Karen Saavedra

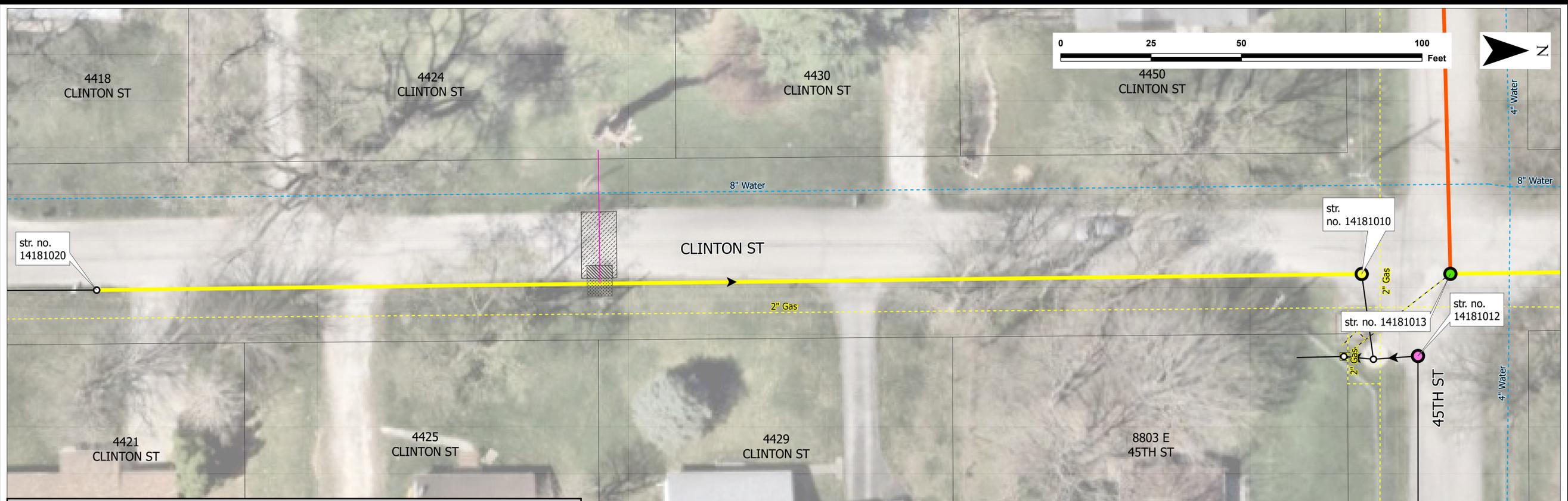
02/05/2026

SANITARY SEWER RESTORATION PLAN

LAWRENCE 46TH ST AND POST I/I REMOVAL PROJECT

DATE:	02/05/2026
DRAWN BY:	HTE
CHK'D BY:	KCS
JOB NO.:	2025.01995
REVISIONS	
1	02/24/2026

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Legend		Sewer Rehabilitation		Manhole Rehabilitation		Restoration	
—	Sanitary Sewer	—	CIPP, Partial Replacement	○	Manhole Lining	▨	Full Depth Asphalt Restoration
—	Lateral	—	CIPP, Lateral Lining, Partial Replacement with Wye	○	Replace Risers	▨	Milling & Resurfacing
○	Sanitary Manhole	—		○	Replace Risers, Manhole Lining	▨	Seeding Restoration
—	Sanitary Force Main						
□	Sanitary Lift Station						
—	Water Main						
—	Gas Main						

NOTES:

1. FOR PAVEMENT REPAIRS ON 46TH ST, REFER TO DETAILS ON SHEET 43.
2. FOR ALL OTHER REPAIRS, REFER TO DETAILS ON SHEET 35. BACKFILL SHALL BE GRANULAR BACKFILL COMPACTED TO FULL DEPTH IN 6" MAXIMUM LIFTS WHEN IN OR WITHIN 5 FEET OF PAVEMENT.
3. LOCATIONS OF SEWER LATERALS AND OTHER UTILITIES ARE APPROXIMATE. CONTRACTOR TO CONFIRM LOCATIONS PRIOR TO WORK.



9025 RIVER ROAD, SUITE 200
 INDIANAPOLIS, IN 46240
 TEL 317.547.5580 FAX 317.543.0270
 www.structurepoint.com

AMERICAN STRUCTUREPOINT INC.

KAREN C. SAAVEDRA
 REGISTERED
 No. PE11500679
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

Karen Saavedra

02/05/2026

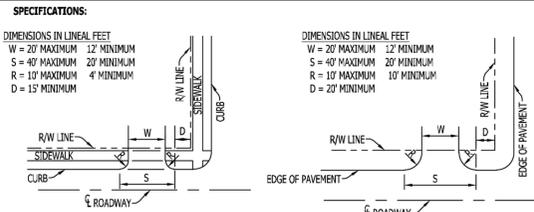
SANITARY SEWER RESTORATION PLAN

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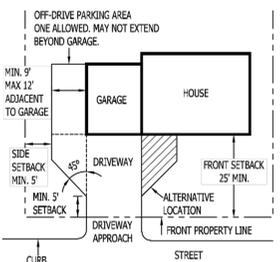
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TYPICAL CLASS-I RESIDENTIAL
 TYPICAL CLASS-II RESIDENTIAL



• TWO ENTRANCES MAY BE PERMITTED WITH A MINIMUM OF 300 FEET FRONTAGE, BASED ON ANTICIPATED TRAFFIC GENERATION PROVIDED THE DISTANCE FROM ANY DRIVEWAY APPROACH TO AN ADJACENT PROPERTY LINE OR ALLEY WAY IS A MINIMUM OF TEN (10) FEET. MINIMUM DISTANCE BETWEEN DRIVEWAYS SHALL BE 40 FEET.

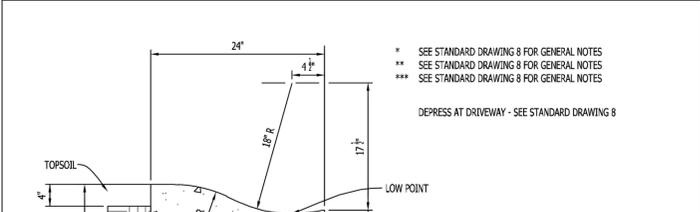
• FOR CORNER LOTS, WHEN TWO CURB CUTS ARE PRESENT, EACH CURB CUT MUST BE TO A SEPARATE STREET UNLESS THE SITE HAS AT LEAST 300 FEET FRONTAGE ALONG A SINGLE PUBLIC STREET.

SURFACE MATERIALS:
 ACCEPTABLE MATERIALS TO PAVE DRIVEWAYS, OFF-DRIVE PARKING, TURNAROUND AREAS AND APPROACH AREAS INCLUDE:

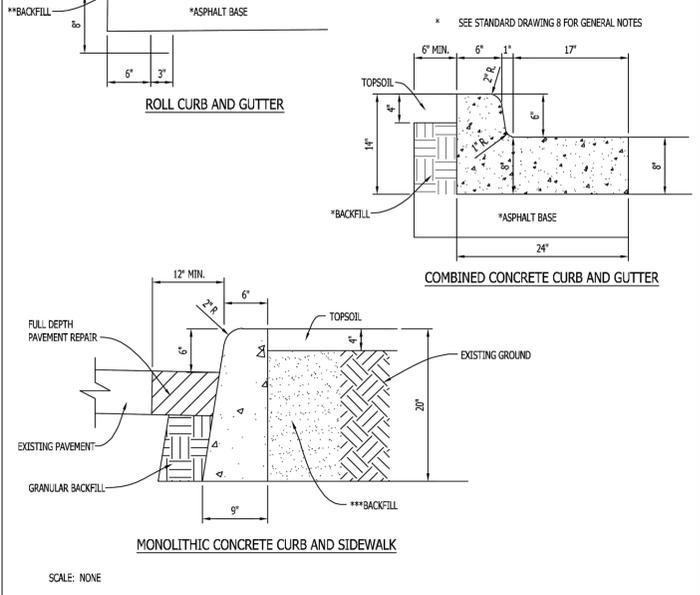
- PORTLAND CEMENT CONCRETE;
- PLANT BITUMINOUS SURFACE (I.E. ASPHALT);
- STONE, BRICK OR CONCRETE PAVERS THAT ARE PLACED WITH GAPS NOT EXCEEDING ONE QUARTER INCH;
- GRAVEL IS NOT PERMITTED WITHIN THE DRIVEWAY APPROACH CONCRETE MUST BE 3900 PSI STRENGTH, 4 TO 6 PERCENT AIR ENTRAINMENT, 3-INCH MAXIMUM SLUMP. CONCRETE MUST NOT BE PLACED WHEN THE AIR TEMPERATURE IS BELOW 40°F AND FALLING OR ON ANY FOUNDATION WHOSE TEMP IS 32°F OR LESS OR UPON FROZEN SUB-GRADE. CONCRETE DEPTH MUST BE 6 INCHES FOR APPROACH, APRON AND SIDEWALK WITHIN DRIVEWAY OR DRIVEWAY APPROACH. REINFORCEMENT BARS OR WELDED WIRE FABRIC ARE NOT ALLOWED IN THE RIGHT-OF-WAY.

COMMERCIAL DRIVES:
 REFER TO INDOT STANDARDS FOR COMMERCIAL DRIVE REQUIREMENTS

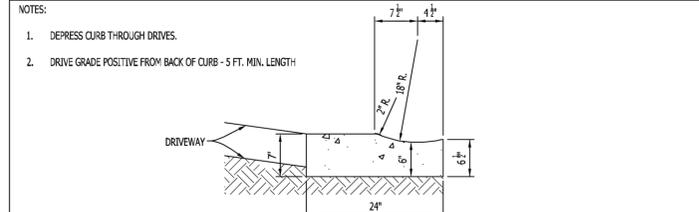
DRIVEWAYS
 CITY OF LAWRENCE, INDIANA
 STANDARD DRAWING
 6b



ROLL CURB AND GUTTER
 COMBINED CONCRETE CURB AND GUTTER



MONOLITHIC CONCRETE CURB AND SIDEWALK
 CURB AND GUTTER DETAILS
 CITY OF LAWRENCE, INDIANA
 STANDARD DRAWING
 7

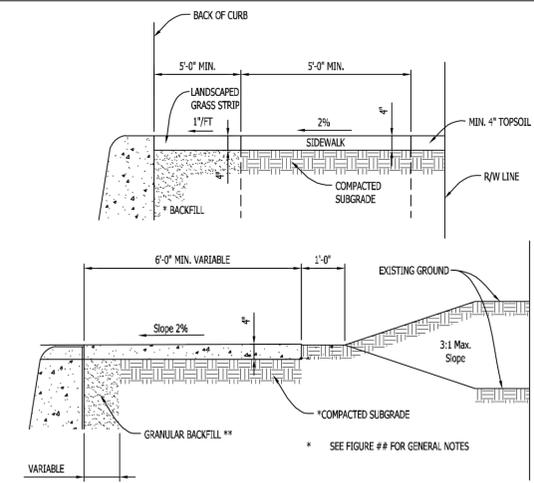


DEPRESSED CURB THROUGH DRIVES

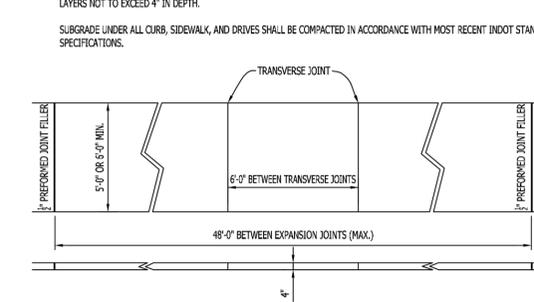
NOTES:
 1. DEPRESS CURB THROUGH DRIVES.
 2. DRIVE GRADE POSITIVE FROM BACK OF CURB - 5 FT. MIN. LENGTH

GENERAL NOTES
 WHERE SIDEWALK IS CONSTRUCTED IMMEDIATELY ADJACENT TO CURB, THE SURFACE OF THE SIDEWALK SHALL BE CONSTRUCTED 1/2" HIGHER THAN THE TOP OF THE CURB.
 TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" OF SPACING AS INDICATED OR DIRECTED.
 * COMPACTED SUBGRADE - ALL SOFT, YIELDING OR OTHER UNSUITABLE MATERIAL, WHICH CANNOT BE COMPACTED SATISFACTORILY, SHALL BE REMOVED. ALL ROCK ENCOUNTERED SHALL BE REMOVED OR BROKEN OFF AT LEAST SIX (6) INCHES BELOW THE SUBGRADE SURFACE. ANY HOLES OR DEPRESSIONS RESULTING FROM THE REMOVAL OF UNSUITABLE MATERIAL, SHALL BE FILLED WITH SUITABLE MATERIAL WHICH SHALL BE THOROUGHLY COMPACTED.
 ** WHERE SIDEWALK IS CONSTRUCTED ADJACENT TO CURB, THE SPACE BEHIND THE NEW CURB SHALL BE FILLED WITH GRANULAR MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 4".
 *** WHERE SIDEWALK IS NOT CONSTRUCTED ADJACENT TO THE CURB, THE SPACE BEHIND THE CURB SHALL BE FILLED WITH SUITABLE MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 4".
 **** WHEN BUILT IN CONJUNCTION WITH CONCRETE PAVEMENT, EXPANSION AND CONTRACTION JOINTS SHOULD BE PLACED AT THE SAME LOCATIONS AS IN THE PAVEMENT SLAB. THE CURB AND GUTTER SHOULD BE TIED TO THE PAVEMENT BY #5 REBARS AT ABOUT 2 FOOT INTERVALS. IF NO CONCRETE PAVEMENT IS BEING BUILT AT THE TIME THE CURB IS CONSTRUCTED, EXPANSION JOINTS SHOULD BE PLACED AT THE ENDS OF ALL RETURNS AND AT INTERVALS NOT TO EXCEED 100 FEET. CONTRACTION JOINTS SHOULD BE INSTALLED AT 20 FOOT SPACING.

DEPRESSED CURB THROUGH DRIVES
 CURB AND GUTTER DETAILS & GENERAL NOTES
 CITY OF LAWRENCE, INDIANA
 STANDARD DRAWING
 8

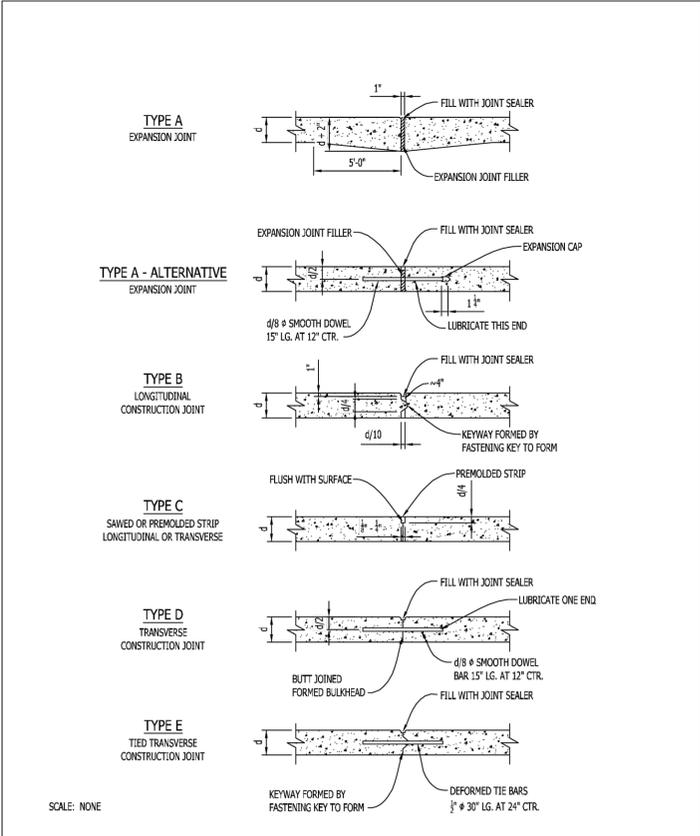


CONCRETE SIDEWALK SECTION VIEW

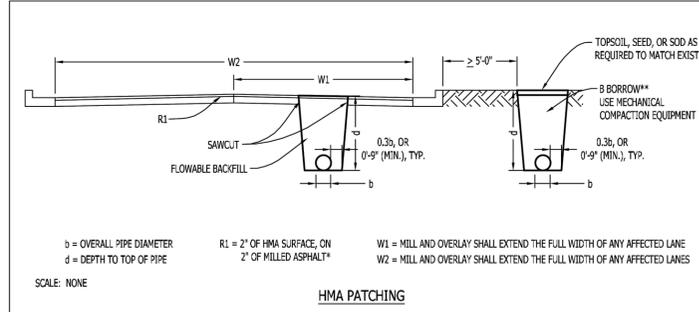


CONCRETE SIDEWALK PLAN VIEW

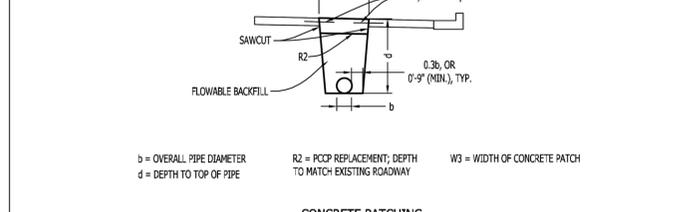
SCALE: NONE
 SIDEWALK DETAILS
 CITY OF LAWRENCE, INDIANA
 STANDARD DRAWING
 9



SCALE: NONE
 JOINT DETAILS
 CITY OF LAWRENCE, INDIANA
 STANDARD DRAWING
 13



HMA PATCHING



CONCRETE PATCHING

NOTES:
 1. ALL EXCAVATED AREAS UNDER PAVED ROADWAYS, OR WITHIN 5'-0" OF THE PAVEMENT EDGE, OR BACK EDGE OF CURB SHALL BE BACKFILLED WITH FLOWABLE BACKFILL MATERIAL (IN ACCORDANCE WITH INDOT SPECIFICATION 213) TO WITHIN FINAL GRADE UNDER PAVEMENT.
 2. THE PATCH SHALL EXTEND A MINIMUM LENGTH OF 25'-0" MEASURED ALONG THE CENTERLINE.
 3. *IN LOCATIONS WHERE THE STREET IS SEVERELY DAMAGED, THE CITY OF LAWRENCE WILL REVIEW THE STREETS CONDITIONS AND RECOMMEND A PERMANENT REPAIR.
 4. IF ANY PORTION OF TRENCH AREA IS NEARER THAN 5'-0" FROM THE EDGE OF THE ROADWAY SURFACE, THE ENTIRE TRENCH MUST BE BACKFILLED WITH STRUCTURE BACKFILL.
 5. **THIS COMPACTION PROCEDURE IS NOT REQUIRED FOR UNIMPROVED AREA OR WHERE PROBLEMS RELATED TO TRENCH SETTLEMENT IS NEGLIGIBLE.
 6. ALL SEEDING AND SODDING SHALL CONFORM TO THE LATEST EDITION OF THE INDOT STANDARD SPECIFICATIONS.

SCALE: NONE
 ROADWAY PATCHING DETAILS FOR UTILITY WORK
 CITY OF LAWRENCE, INDIANA
 STANDARD DRAWING
 15

8025 RIVER ROAD, SUITE 200
 INDIANAPOLIS, IN 46240
 TEL 317.547.5580 FAX 317.543.0270
 www.structurepoint.com

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**CITY OF LAWRENCE
 ROADWAY DETAILS**

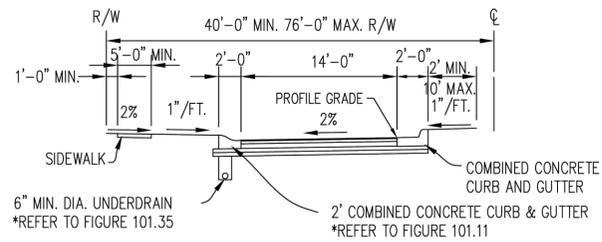
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PLOT SCALE: 1:1 EDIT DATE: 8/15/17 - 10:12 AM EDITED BY: VESTUPINAN DRAWING FILE: P:\2025\01995\D. DRAWINGS\UTILITY INFRASTRUCTURE\202501995.LLDTLS.DWG

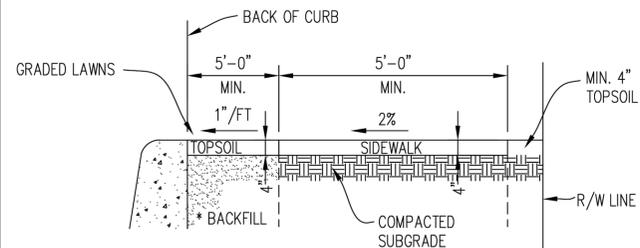
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HALF TYPICAL SECTION - DIVIDED STREET

1. THE LOCATION OF THE PROFILE GRADE SHALL BE INDICATED ON THE TYPICAL SECTION FOR EACH STREET SECTION USED IN THE SET OF CONSTRUCTION PLANS.
2. THE SIDEWALK SHALL BE LOCATED IN ACCORDANCE WITH FIGURES 101.16 AND 101.17.
3. THE FOLLOWING TREATMENT SHALL BE GIVEN THE MEDIAN AREA BASED ON WIDTH BACK TO BACK OF CURBS.
 - A.) 4' OR LESS PAVED FULL WIDTH USING THE PAVEMENT REQUIRED FOR DRIVEWAYS AS SHOWN ON THE 'DRIVEWAY STANDARD SHEETS'. CONSIDERATION SHOULD BE GIVEN TO 'STERILIZING' THE SOIL BELOW THE PAVING IN THIS AREA.
 - B.) 6' TO 10' THE AREA MAY BE SODDED, SEED, OR PAVED THE FULL WIDTH BETWEEN CURBS.
 - C.) OVER 10' SODDING OR SEEDING WILL BE USED AND AN AGREEMENT FOR MAINTENANCE RESPONSIBILITY WILL BE REQUIRED FOR COLLECTOR OR LOCAL TYPE STREETS.
4. THE PAVEMENT THICKNESS SHALL BE APPROPRIATE FOR THE CLASSIFICATION OF THE STREET.

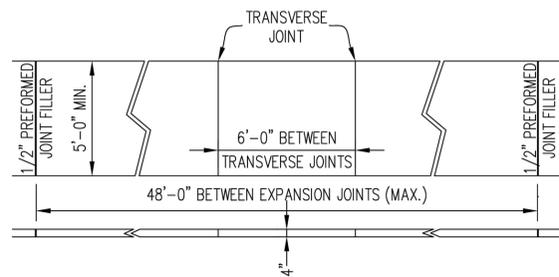
	INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS	NOT TO SCALE
	HALF TYPICAL SECTION - DIVIDED STREET	
	FIGURE 101.04	
	UPDATED: 11/19/2012	



CONCRETE SIDEWALK SECTION

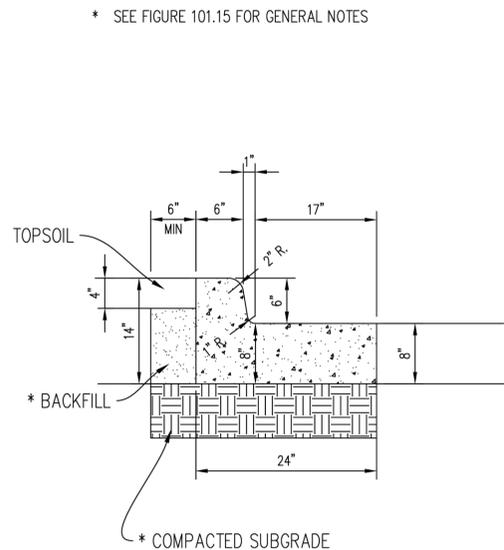
* THE SPACE BEHIND THE CURB SHALL BE FILLED WITH SUITABLE MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 4" IN DEPTH.

SUBGRADE UNDER ALL CURB, SIDEWALK, AND DRIVES SHALL BE COMPACTED IN ACCORDANCE WITH MOST RECENT INDOT STANDARD SPECIFICATIONS.



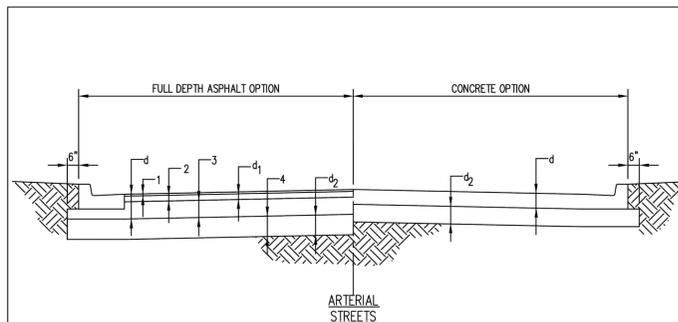
CONCRETE SIDEWALK

	INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS	NOT TO SCALE
	SIDEWALK DETAILS	
	FIGURE 101.16	
	UPDATED: 11/19/2012	



* SEE FIGURE 101.15 FOR GENERAL NOTES

	INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS	NOT TO SCALE
	COMBINED CONCRETE CURB & GUTTER	
	FIGURE 101.11	
	UPDATED: 11/19/2012	



	ASPHALT (d+d ₂ = 12" + 8" = 20")	ASPHALT ALTERNATIVE 1 (d+d ₂ = 6" + 8" = 16")	CONCRETE
①	165 lb/yd ³ HMA SURFACE 9.5 mm	165 lb/yd ³ HMA SURFACE 9.5 mm	d=8" CONCRETE
②	275 lb/yd ³ HMA INTERMEDIATE 19.0 mm	d ₁ = 7" RCC	
③	(2) LAYERS OF 440 lb/yd ³ HMA BASE 25.0 mm	N/A	
④	TYPE IIA	TYPE IIA	d ₂ = TYPE IIA

NOTE:
ADD 1" TO ALL TOTAL HMA AND CONCRETE THICKNESSES IF ADT, AADT,
OR DHV TRUCK TRAFFIC IS GREATER THAN 10%
RCC = ROLLER COMPACTED CONCRETE

	INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS	NOT TO SCALE
	PAVEMENT TYPES & THICKNESSES	
	FIGURE 101.20	
	UPDATED: 11/19/2012	

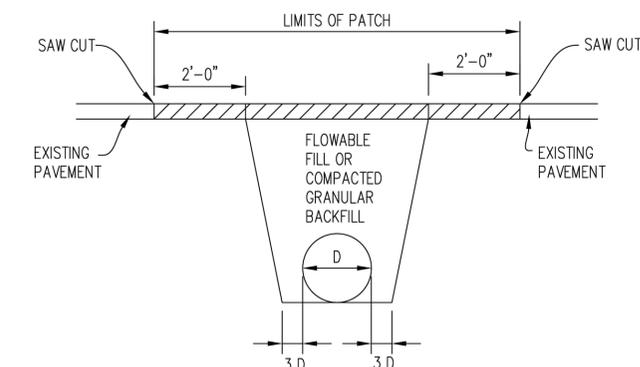
GENERAL NOTES

Where sidewalk is constructed immediately adjacent to curb, the surface of the sidewalk shall be constructed $\frac{1}{2}$ " higher than the top of the curb. (See FIGURE 101.17)

Transverse joints shall be cut with a jointer having a radius of $\frac{1}{4}$ " of spacing as indicated or as directed by the Engineer.

- * Compacted Subgrade - All soft, yielding or other unsuitable material, which cannot be compacted satisfactorily, shall be removed. All rock encountered shall be removed or broken off at least six (6) inches below the subgrade surface. Any holes or depressions resulting from the removal of unsuitable material, shall be filled with suitable material which shall be thoroughly compacted.
- ** Where sidewalk is constructed adjacent to curb, the space behind the new curb shall be filled with granular material to the required elevation and compacted in layers not to exceed 4".
- *** Where sidewalk is not constructed adjacent to the curb, the space behind the curb shall be filled with suitable material to the required elevation and compacted in layers not to exceed 4".
- **** When built in conjunction with concrete pavement, expansion and contraction joints should be placed at the same locations as in the pavement slab. The curb and gutter should be tied to the pavement by #5 rebars at 2 foot intervals. If no concrete pavement is being built at the time the curb is constructed. Expansion joints should be placed at the ends of all returns and at intervals not to exceed 100 feet. Contraction joints should be installed at 20 foot spacing.

	INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS	NONE
	GENERAL NOTES FOR CURB & GUTTER	
	FIGURE 101.15	
	UPDATED: 11/26/2012	



NOTES:

1. SAW CUT $\frac{1}{2}$ PAVEMENT THICKNESS THEN BREAK OUT.
- FOR PAVEMENT PATCHES SEE FIGURES 101.45, 101.46, AND 101.47.

	INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS	SCALE: 1/2"=1'-0"
	REPAIR OF CUTS WITHIN PAVEMENT LIMITS	
	FIGURE 101.44	
	UPDATED: 11/20/2012	

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INDIANAPOLIS, IN 46240
TEL 317.547.5580 FAX 317.543.0270
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**CITY OF INDIANAPOLIS
ROADWAY DETAILS**

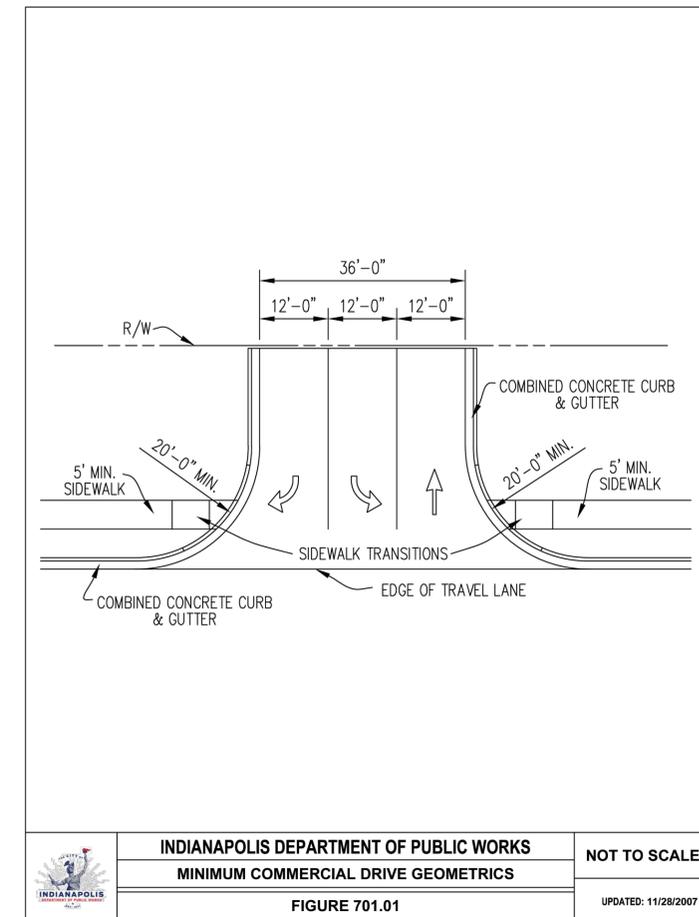
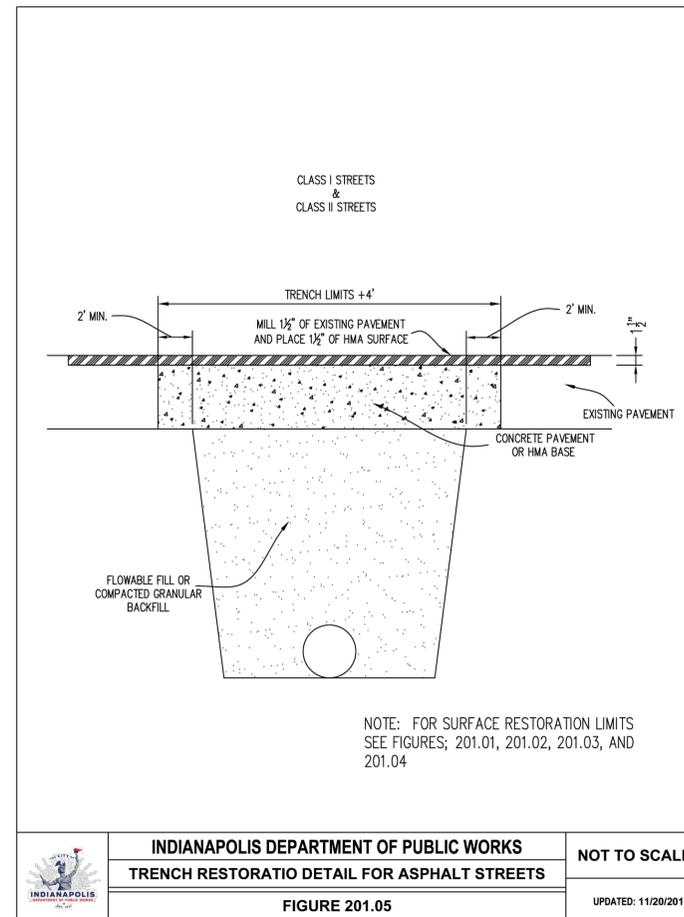
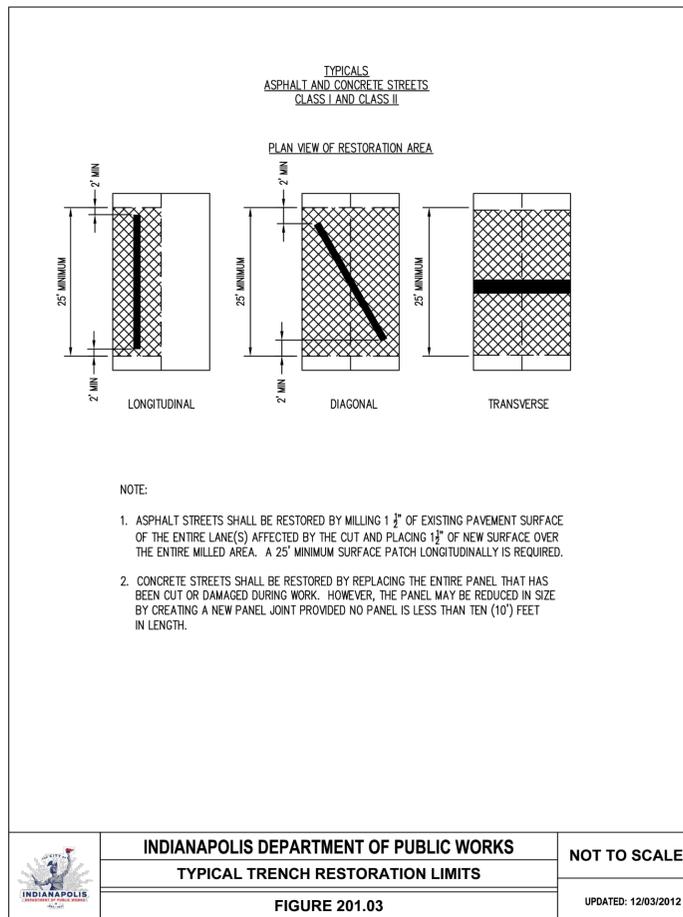
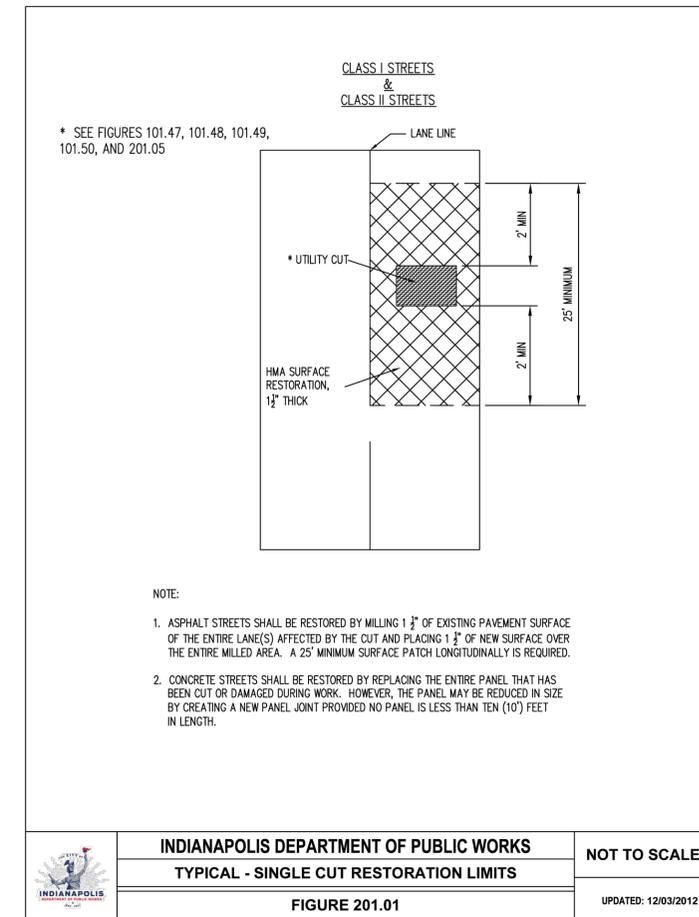
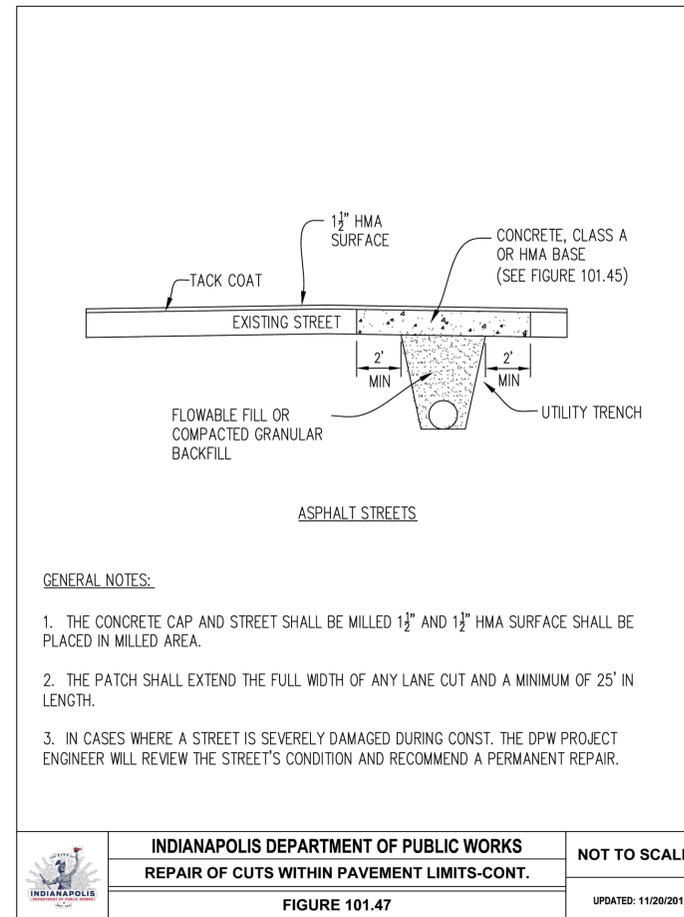
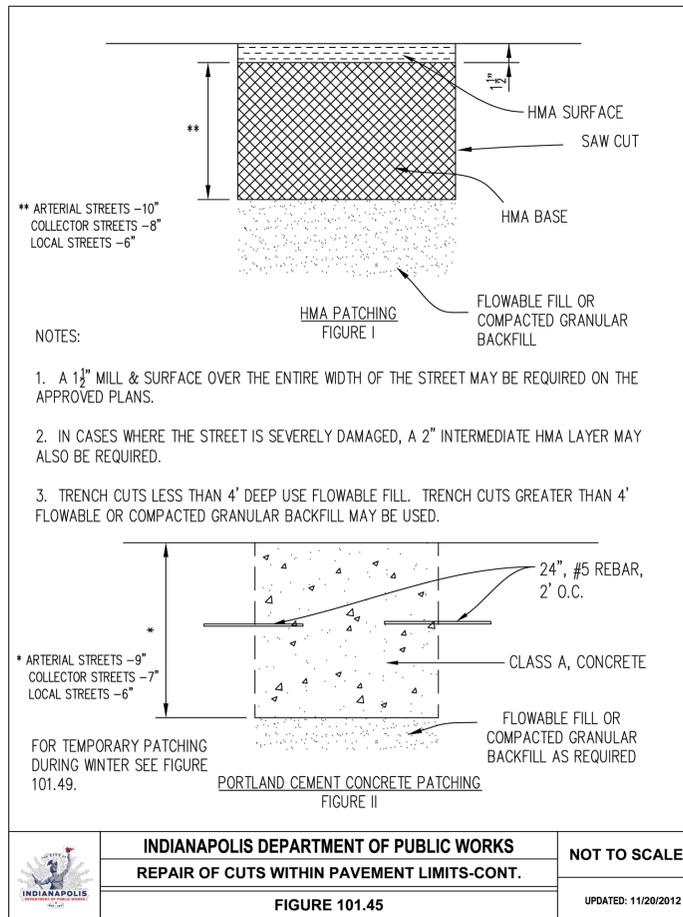
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SHEET NO.

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INDIANAPOLIS, IN 46240
TEL 317.547.5680 FAX 317.543.0270
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